

10/527,478

1-14. (CANCELED)

15. (NEW) An electrical connecting device comprising:

- a) a current or data transmitter device, which connectable to at least one current-transmitting or pulse-transmitting source, is arranged in a transmitter housing and has contact elements;
- b) a current receiving or data receiving device, which is electrically connected to a load or a consumer, is arranged in a receiver housing and has contact elements;
- c) at least the contact elements in one of the current receiving or the data receiving device or the current receiving or the data receiving device are arranged in an at least partially elastic wall of the associated housing;
- d) a current, pulse or data transfer can be produced between the contact elements (which are in the form of flat contacts with touching surfaces) of the current or data transmitter device and the current receiving or data receiving device by connection of the current or data transmitter device to the current receiving or data receiving device;
- e) a number of contact elements of at least one of the two devices are arranged alongside one another in a configuration (16) in the form of an array formed by a frame (10);
- f) the contact elements (3) which are inserted into the configuration in the form of an array are elastically mounted; and
- g) the configuration in the form of an array rests on a pressing link (16) on the side facing away from the contact elements (3).

16. (NEW) The electrical connecting device according to claim 15, wherein the contact elements (3) are at least partially embedded in an elastic sheath (14).

2005-03-18

- 2 -

BEST AVAILABLE COPY

10/527,478

17. (NEW) The electrical connecting device according to claim 15, wherein the current or data transmitter device (1) and the current receiving or data receiving device (5) are each provided with magnet bodies (4, 7), and the magnet bodies (7) for the current receiving or data receiving device (5) are arranged opposite the magnet bodies (4) of the current transmitter or data transmitter device (1).

18. (NEW) The electrical connecting device according to claim 15, wherein the configuration in the form of an array is formed by a frame (10).

19. (NEW) The electrical connecting device according to claim 16, wherein the elastic sheath (14) is formed by molding.

20. (NEW) The electrical connecting device according to claim 15, wherein the elastic pressing link (16) comprises hard rubber or a substance similar to hard rubber.

21. (NEW) The electrical connecting device according to claim 15, wherein two of the contact elements (3) located alongside one another are connected to one another by a conductive link part (21) in order to enlarge the flat contact.

22. (NEW) The electrical connecting device according to claim 17, wherein the magnet bodies (4) are in the form of magnets (7) which are reinforced by iron casings (8).

23. (NEW) The electrical connecting device according to claim 15, wherein the magnet bodies (4) are in the form of magnets, and are each coded by splitting within a magnet into two or more magnet parts of different polarity.

24. (NEW) The electrical connecting device according to claim 17, wherein the magnet bodies (4) which can be arranged opposite one another in the current or data transmitter device (1) and in the current receiving or data receiving device (5) are passed through guides (19, 20) in the transmitter housing (2) and in the receiver housing (6) for connection.

09/21/05 02:28 PM

- 3 -

BEST AVAILABLE COPY

10/527,478

25. (NEW) The electrical connecting device according to claim 24, wherein the guides (19, 20) are conical.

26. (NEW) The electrical connecting device according to claim 15, wherein the current or data transmitter device (1) can be connected to the current receiving or data receiving device (5) by connecting mechanical connecting elements to one another.